

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| S12 5 | 11   | (signal near4 (track\$4 synchroniz\$4 synchronis\$4)) same ((adjust\$4 dynamic\$4 variable) near4 (step step-size)) and ((up same down) same (averag\$4))  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2007/06/21 15:30 |
| S12 7 | 23   | (signal near4 (track\$4 synchroniz\$4 synchronis\$4 detect\$4)) same ((adjust\$4 dynamic\$4 variable) near4 (step step-size)) and ((up same down) with (averag\$4))                              | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2007/06/21 15:31 |
| S12 6 | 37   | (signal near4 (track\$4 synchroniz\$4 synchronis\$4 detect\$4)) same ((adjust\$4 dynamic\$4 variable) near4 (step step-size)) and ((up same down) same (averag\$4))                              | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2007/06/21 15:33 |
| S12 8 | 1    | (signal near4 (track\$4 synchroniz\$4 synchronis\$4 detect\$4)) same ((adjust\$4 dynamic\$4 variable) near4 (step step-size)) and (((plurality multiple) near4 (up same down)) same (averag\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2007/06/21 15:34 |
| S13 0 | 16   | ((adjust\$4 dynamic\$4 variable) near5 (phase near4 (step step-size))) and (((up same down)) same (averag\$4))   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2007/06/21 15:36 |
| S12 9 | 3    | (signal near4 (track\$4 synchroniz\$4 synchronis\$4 detect\$4)) same ((adjust\$4 dynamic\$4 variable) near5 (phase near4 (step step-size))) and (((up same down)) same (averag\$4))              | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2007/06/21 15:36 |
| S13 1 | 29   | (PLL (phase near3 lock\$3 near3 loop)) same (clock same adjust\$4 near5 phase near4 ((step\$1size) step size (step\$1 near2 size))) and ((flip\$1flop) (flip\$1 adj flop) (latch\$2))            | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2007/06/25 14:40 |
| S13 2 | 19   | (PLL (phase near3 lock\$3 near3 loop)) and (clock same (adjustable variable) near5 phase near4 ((step\$1size) step size (step\$1 near2 size))) and ((flip\$1flop) (flip\$1 adj flop) (latch\$2)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2007/06/25 15:20 |

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|          |     |   |   |    |    |                  |
|----------|-----|---|---|----|----|------------------|
| S13<br>3 | 0   | (clock same (adjustable variable) near5 phase near4 ((step\$1size) step size (step\$1 near2 size))) and ((flip\$1flop) (flip\$1 adj flop) (latch\$2)) same reset\$4 and ((plurality multiple) with ((up and down) (up and dn))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/25 15:22 |
| S13<br>4 | 2   | (clock same (adjustable variable) near5 phase near4 ((step\$1size) step size (step\$1 near2 size))) and ((flip\$1flop) (flip\$1 adj flop) (latch\$2)) and ((plurality multiple) with ((up and down) (up and dn)))               | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/25 15:23 |
| S13<br>6 | 12  | (clock same (adjust\$5 variable) near5 phase near4 ((step\$1size) step size (step\$1 near2 size))) and ((plurality multiple) with ((up and down) (up and dn)))  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/26 15:03 |
| S13<br>7 | 826 | ((adjustable variable) near5 phase near4 ((step\$1size) step size (step\$1 near2 size)))  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/26 15:04 |
| S13<br>8 | 26  | ((adjustable variable) near5 phase near4 ((step\$1size) step size (step\$1 near2 size))) and ((variable near4 (rate bit\$1rate data speed)) same clock)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/26 15:05 |
| S13<br>5 | 11  | (clock same (adjust\$5 variable) near5 phase near4 ((step\$1size) step size (step\$1 near2 size))) and ((flip\$1flop) (flip\$1 adj flop) (latch\$2)) and ((plurality multiple) with ((up and down) (up and dn)))                | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/27 13:48 |
| S14<br>2 | 261 | S140 not S139   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/27 14:09 |
| S14<br>0 | 295 | (clock same (adjustable variable calculat\$4 determin\$4) near5 phase near4 ((step\$1size) step size (step\$1 near2 size))) and (375/376, 373.ccls. 327/147,156.ccls. pll (phase near3 lock\$3 near3 loop\$2))                  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/27 14:09 |
| S13<br>9 | 34  | (clock same (adjustable variable) near5.phase near4 ((step\$1size) step size (step\$1 near2 size))) and (375/376,373.ccls.. 327/147,156. ccls. pll (phase near3 lock\$3 near3 loop\$2))   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/27 14:09 |

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|          |      |   |   |    |    |                  |
|----------|------|---|---|----|----|------------------|
| S14<br>3 | 4    | (clock same (adjustable variable) near5 phase near4 ((step\$1size) step size (step\$1 near2 size))) same (pll (phase near3 lock\$3 near3 loop\$2))                                | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/27 15:33 |
| S14<br>4 | 0    | (variable near4 (data\$1 bit\$1) near4 rate) same sampler same clock same (pll (phase near3 lock\$3 near3 loop\$2))   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/27 15:36 |
| S14<br>5 | 57   | (variable near4 (data\$1 bit\$1) near4 rate) same clock same (pll (phase near3 lock\$3 near3 loop\$2))  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/27 15:39 |
| S14<br>7 | 10   | (variable near4 (data\$1 bit\$1) near4 rate) same (pll (phase near3 lock\$3 near3 loop\$2)) and ((ppm) (part near3 million))  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/28 13:33 |
| S14<br>6 | 9    | (variable near4 (data\$1 bit\$1) near4 rate) same clock same (pll (phase near3 lock\$3 near3 loop\$2)) and ((ppm) (part near3 million))   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/28 14:21 |
| S14<br>8 | 57   | (variable near4 (data\$1 bit\$1) near4 rate) same clock same (pll (phase near3 lock\$3 near3 loop\$2))  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/06/28 14:22 |
| S15<br>0 | 82   | (phase near4 detect\$4) near5 (piple\$1line (stall near3 logic) flip\$1flop (flip\$1 adj flop)) and (375/374,375.ccls.)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/10 16:21 |
| S14<br>9 | 2961 | (phase near4 detect\$4) with (piple\$1line (stall near3 logic) flip\$1flop (flip\$1 adj flop))  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/10 16:21 |
| S15<br>4 | 5    | (phase near4 detect\$4) near5 (piple\$1line (stall near3 logic) flip\$1flop (flip\$1 adj flop)) and (375/374,375.ccls.) and (adjustable near4 (phase step\$5 (step\$1 adj size))) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/07/10 16:28 |

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|          |      |  |   |    |    |                  |
|----------|------|--|---|----|----|------------------|
| S15<br>3 | 5    | (phase near4 detect\$4) near5<br>(piple\$1line (stall near3 logic)<br>flip\$1flop (flip\$1 adj flop)) and<br>(375/374,375.ccls.) and (adjustable<br>near4 (phase step\$5)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/10 16:28 |
| S15<br>2 | 5    | (phase near4 detect\$4) near5<br>(piple\$1line (stall near3 logic)<br>flip\$1flop (flip\$1 adj flop)) and<br>(375/374,375.ccls.) and (adjustable<br>near4 (phase step\$1)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/10 16:28 |
| S15<br>1 | 40   | (phase near4 detect\$4) near5<br>(piple\$1line (stall near3 logic)<br>flip\$1flop (flip\$1 adj flop)) and<br>(375/374,375.ccls.) and (adjust\$4<br>near4 (phase step\$1))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/10 16:28 |
| S15<br>6 | 2    | ((adjustable near3 (step\$1size<br>(step\$1 adj size))) with phase) and<br>(variable near4 (data rate bit))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/10 16:58 |
| S15<br>5 | 2    | ((adjustable near3 (step\$1size<br>(step\$1 adj size))) with phase)<br>same (variable near4 (data rate<br>bit))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/10 16:58 |
| S15<br>8 | 25   | ((adjustable near3 (step\$1size<br>(step\$1 adj size)))) and (variable<br>near4 (data rate bit))   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/10 16:59 |
| S15<br>7 | 1    | ((adjustable near3 (step\$1size<br>(step\$1 adj size)))) and (variable<br>near4 (data rate bit)) and ((phase<br>near3 detect\$4) pll dll )                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/10 16:59 |
| S15<br>9 | 1031 | (phase near3 detect\$4) same (up\$1<br>same (down\$1 dn) ) same (filter\$4<br>averag\$4) same vco  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/20 11:14 |
| S16<br>0 | 84   | (phase near3 detect\$4) same<br>((up\$1 same (down\$1 dn) ) with<br>((low near2 filter\$4 ) (lpf)<br>averag\$4)) same vco  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/20 11:15 |
| S16<br>2 | 0    | (phase near3 detect\$4) same<br>((up\$1 same (down\$1 dn) ) with<br>((low near2 filter\$4 ) (lpf) and<br>averag\$4)) same vco same sampler                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/20 11:16 |

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|          |      |   |   |    |    |                  |
|----------|------|---|---|----|----|------------------|
| S16<br>1 | 59   | (phase near3 detect\$4) same<br>((up\$1 same (down\$1 dn) ) with<br>((low near2 filter\$4 ) (lpf) and<br>averag\$4)) same vco | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/20 11:19 |
| S16<br>5 | 57   | ((low near2 filter\$4 ) (lpf)) near3<br>averag\$4) with (up down)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/20 11:20 |
| S16<br>4 | 89   | ((low near2 filter\$4 ) (lpf)) near3<br>averag\$4) same pll   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/20 11:20 |
| S16<br>3 | 8149 | ((low near2 filter\$4 ) (lpf)) with<br>averag\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/07/20 11:20 |